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TO Chief, Developmental Projects Division, DD/P DATE: 8 NOV 1980

FROM: Chief, Electronics Division/SI

SUBJECT: Modification of Ampex FR 100, FR 1100, and AR 800 Tape Recorders

It is strongly urged that tape recorders currently in use by CIA be modified to raise the record bias frequency from the factory established level of approximately 300kc to approximately modification improves the recorder for the following reasons:

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(a) The playback response on the standard playback equipments for the above series of recorders is very much peaked at approximately 100kc in order to provide the advertised flat frequency response. The playback amplifiers also contain one feedback loop. This circuitry produces pronounced ringing of the subharmonic 300 kc recorder bias.

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- (b) Wider frequency response playback equipments are currently in use by etc.. Using these improved frequency response playback equipments on original tapes from the above series Ampex recorders produces an effective frequency response in the neighborhood of 150-200kc/s. It is most desirable to have the record bias shifted well above the quarter or half megacycle nominal response of these new improved tape playback equipments.
- 2. The desirability of this modification was discussed at length sessions and was included among their recommenda- 25X1A in last summer's Report 3.008 of 21 May 1960 (U) prepared by an 25X1A employee and generally agreed to by 25X1A emphasizes the desirability of this modification.
- 3. The attached sketch details what is involved. It may be quickly noted that this modification involves a very nominal cost for parts as well as reasonable time and may be accomplished by any qualified service personnel.
- 4. Considering the nominal cost involved and the genuine improvement in performance which results in this change, this Office can see no reason why the change should not be made to all units currently in use by CIA.

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TET TO CLASS. 1X

Encl:

Chart

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Medified bias coefficier in the

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